

DERWENT-ACC-NO: 1982-D1383E
DERWENT-WEEK: 198212
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TITLE: Cooled IC engine piston - has pressed steel main body and heat-resistant e.g. steel top welded on in annular cooling chamber area

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PATENT-ASSIGNEE: ALCAN ALUMINIUMWERKE GMBH [ALCN]

PRIORITY-DATA:
1980DE-3032671 (August 29, 1980)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES	MAIN-IPC	
DE 3032671 A	March 18, 1982	N/A
015	N/A	

INT-CL (IPC): F02F003/16
ABSTRACTED-PUB-NO: DE 3032671A

BASIC-ABSTRACT:

The i.c. engine piston has a cooling chamber (6) adjacent to the piston ring area (7) in the main piston body (1) and a piston top (2) of e.g. heat-resistant steel. The main body is a pressed steel component and is secured to the top by welding (3).

The (annular) cooling chamber (5,6) is pref. arranged in the area where the two parts (1,2) are joined and is bounded by the wall portions of both parts.

There may be more than one such chamber separated by one or more partitions (4). These chambers may be connected via openings in the partition, or the chamber (5) nearest the piston head (10) may be evacuated, gas-filled or filled

with insulating material whilst the other chamber (6)
receives a coolant
supply.

CHOSEN-DRAWING: Dwg.1

DERWENT-CLASS: Q52